

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/03473

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01M2/04 H01M2/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 75988 A (JUDAI KANTA ;KAIHO TAKASHI (JP); IKEDA YASUNOBU (JP); SATO TAKESHI) 11 October 2001 (2001-10-11) figures 1,8 abstract	1-8
A	--- EP 0 679 002 A (NOKIA MOBILE PHONES LTD) 25 October 1995 (1995-10-25) figure 2 abstract	1-8
A	--- EP 0 991 246 A (NOKIA MOBILE PHONES LTD) 5 April 2000 (2000-04-05) figure 4 abstract	1-8
	--- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

29 April 2003

Date of mailing of the international search report

19 05 2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

ULRIKA NILSSON / ELY

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 02/03473

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section EI, Week 200216 Derwent Publications Ltd., London, GB; Class T01, AN 2002-117062 XP002239690 & JP 2001 127456 A (FUJITSU KIDEN LTD), 11 May 2001 (2001-05-11) abstract</p> <p style="text-align: center;">---</p>	1-8
A	<p>DATABASE WPI Section PQ, Week 199915 Derwent Publications Ltd., London, GB; Class Q61, AN 1999-172452 XP002239691 & JP 11 025941 A (KYOCERA CORP), 29 January 1999 (1999-01-29) abstract</p> <p style="text-align: center;">-----</p>	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 02/03473

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0175988	A	11-10-2001	JP 2001285431 A CN 1365523 T EP 1188193 A1 WO 0175988 A2 US 6515450 B1	12-10-2001 21-08-2002 20-03-2002 11-10-2001 04-02-2003
EP 0679002	A	25-10-1995	FI 941812 A EP 0679002 A2 US 5669069 A	20-10-1995 25-10-1995 16-09-1997
EP 0991246	A	05-04-2000	EP 0991246 A2 GB 2342118 A ,B JP 2000114740 A US 2002131584 A1	05-04-2000 05-04-2000 21-04-2000 19-09-2002
JP 2001127456	A	11-05-2001	NONE	
JP 11025941	A	29-01-1999	NONE	